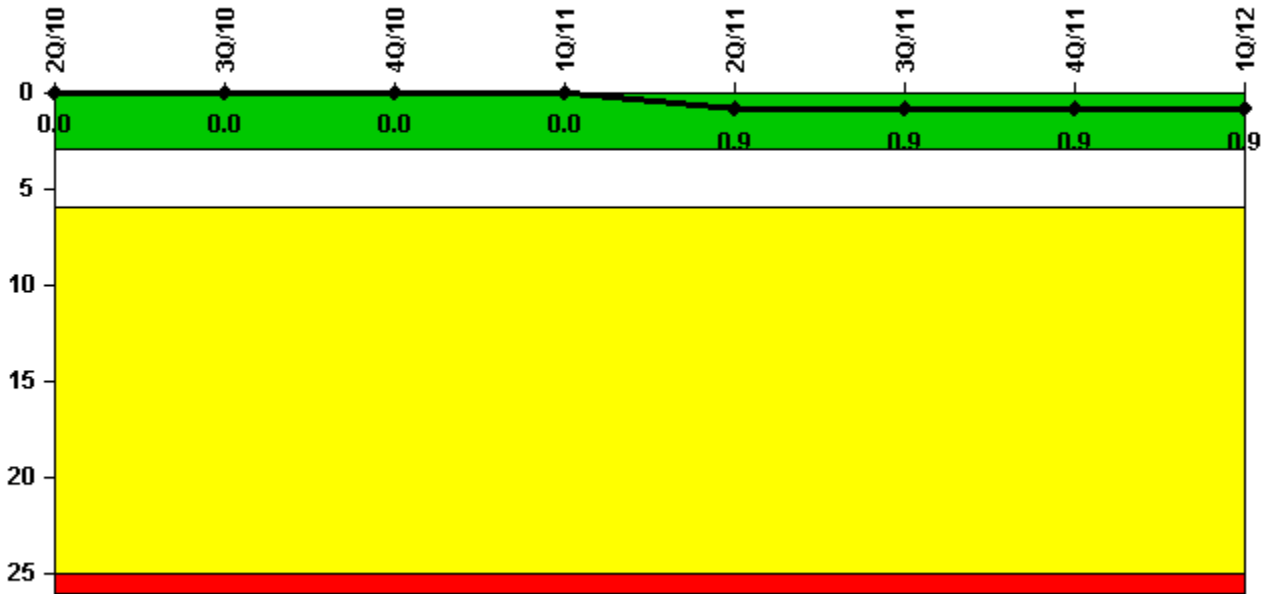


# Comanche Peak 2

## 1Q/2012 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



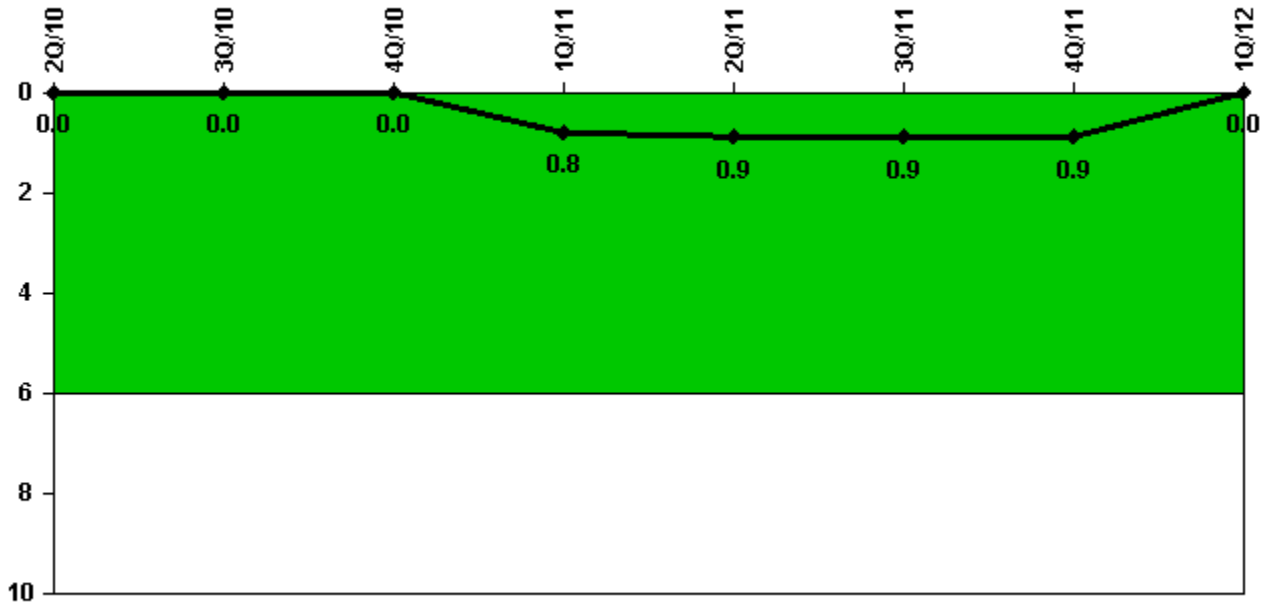
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1553.2	2208.0	2209.0	2183.0
Indicator value	0	0	0	0	0.9	0.9	0.9	0.9

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1553.2	2208.0	2209.0	2183.0
Indicator value	0	0	0	0.8	0.9	0.9	0.9	0

Licensee Comments: none

# Unplanned Scrams with Complications



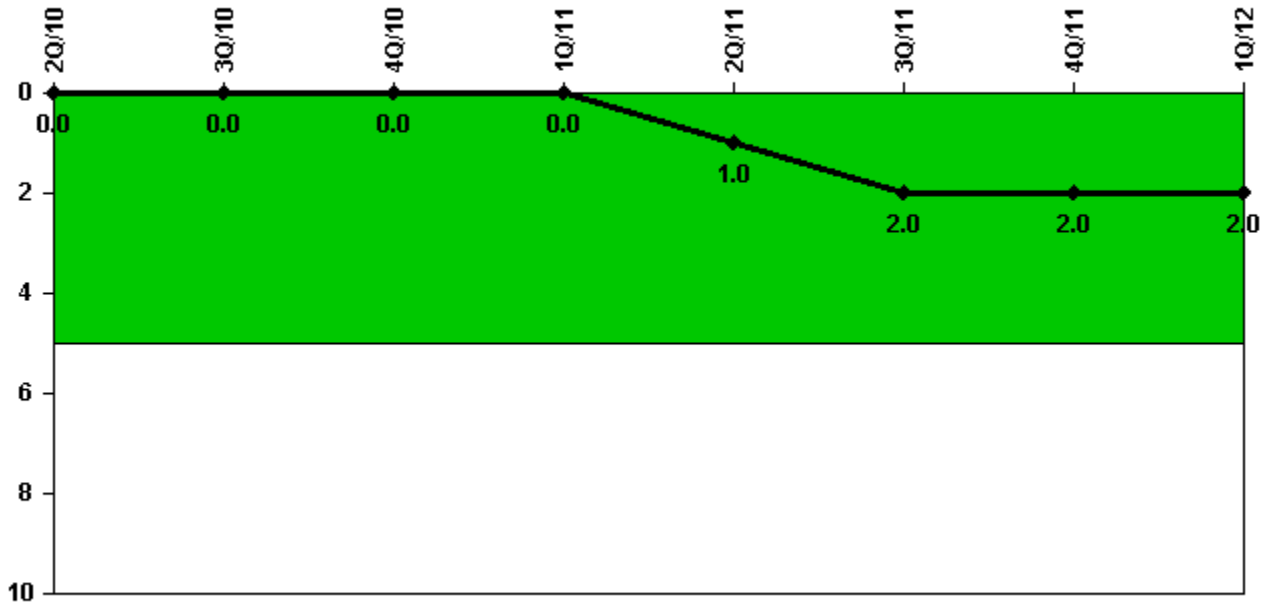
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



Thresholds: White > 5.0

### Notes

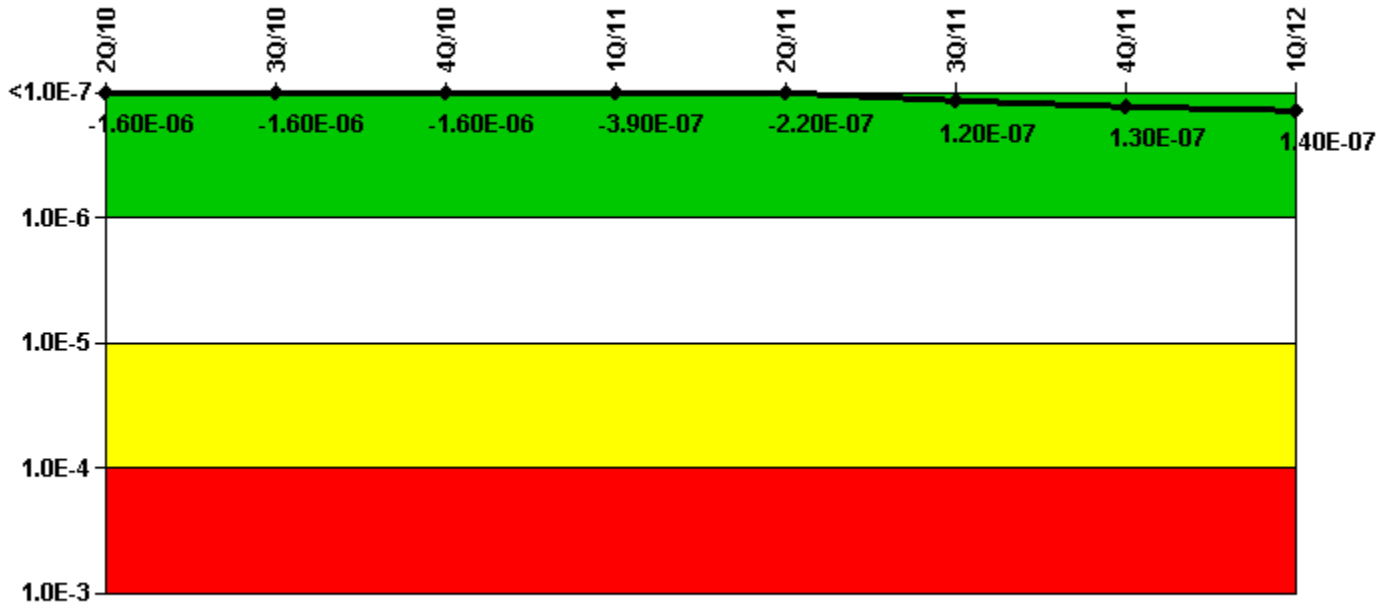
Safety System Functional Failures (PWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	0	0	0	1	1	0	0
Indicator value	0	0	0	0	1	2	2	2

Licensee Comments:

3Q/11: LER 446/11-003-00

2Q/11: LER 445/11-001-00.

# Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

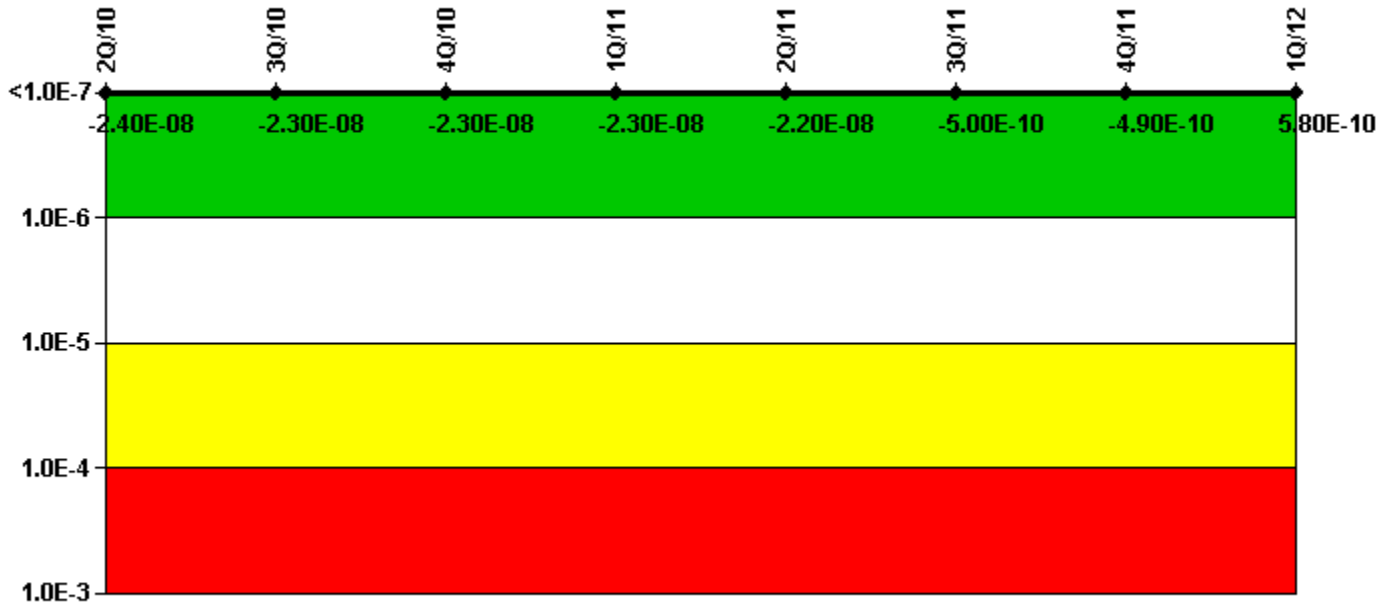
Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-3.06E-07	-3.14E-07	-3.14E-07	-8.66E-08	-5.64E-08	-2.57E-08	-2.39E-08	-1.28E-08
URI ( $\Delta$ CDF)	-1.28E-06	-1.29E-06	-1.29E-06	-3.02E-07	-1.67E-07	1.44E-07	1.50E-07	1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-06	-1.60E-06	-1.60E-06	-3.90E-07	-2.20E-07	1.20E-07	1.30E-07	1.40E-07

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

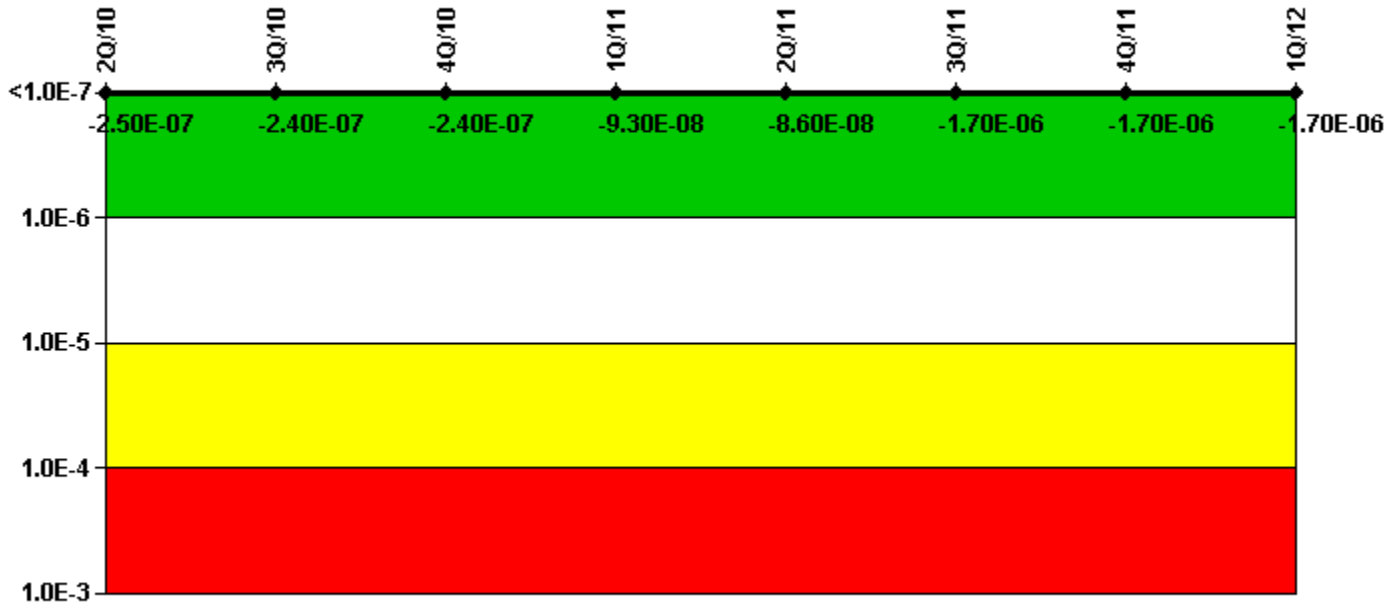
Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-1.42E-08	-1.32E-08	-1.34E-08	-1.23E-08	-1.23E-08	-1.57E-10	-1.58E-10	-1.32E-10
URI ( $\Delta$ CDF)	-9.91E-09	-1.00E-08	-1.00E-08	-1.05E-08	-1.01E-08	-3.43E-10	-3.35E-10	7.16E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08	-5.00E-10	-4.90E-10	5.80E-10

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

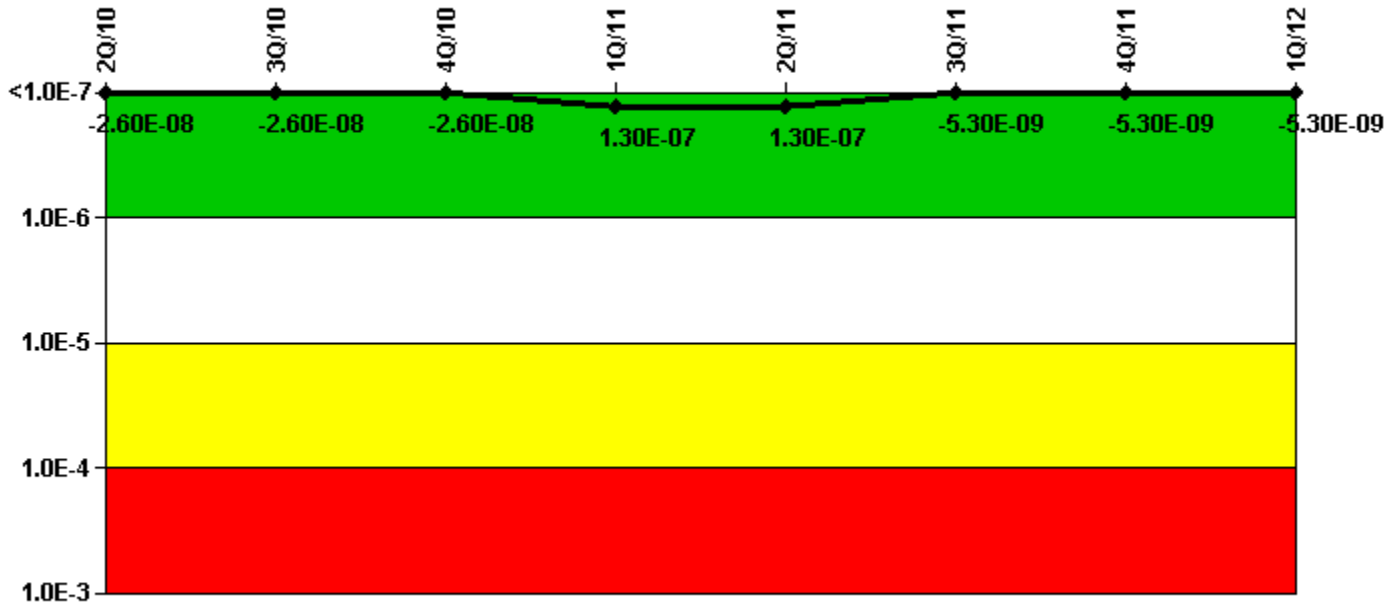
Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-1.51E-07	-1.51E-07	-1.51E-07	-3.97E-08	-3.05E-08	-1.44E-06	-1.44E-06	-1.44E-06
URI ( $\Delta$ CDF)	-9.44E-08	-9.09E-08	-9.08E-08	-5.36E-08	-5.55E-08	-2.41E-07	-2.53E-07	-2.64E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.40E-07	-2.40E-07	-9.30E-08	-8.60E-08	-1.70E-06	-1.70E-06	-1.70E-06

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-4.02E-10	-4.02E-10	-4.02E-10	-7.36E-09	-7.36E-09	-1.38E-09	-1.38E-09	-1.38E-09
URI ( $\Delta$ CDF)	-2.59E-08	-2.59E-08	-2.59E-08	1.37E-07	1.37E-07	-3.89E-09	-3.90E-09	-3.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-08	-2.60E-08	-2.60E-08	1.30E-07	1.30E-07	-5.30E-09	-5.30E-09	-5.30E-09

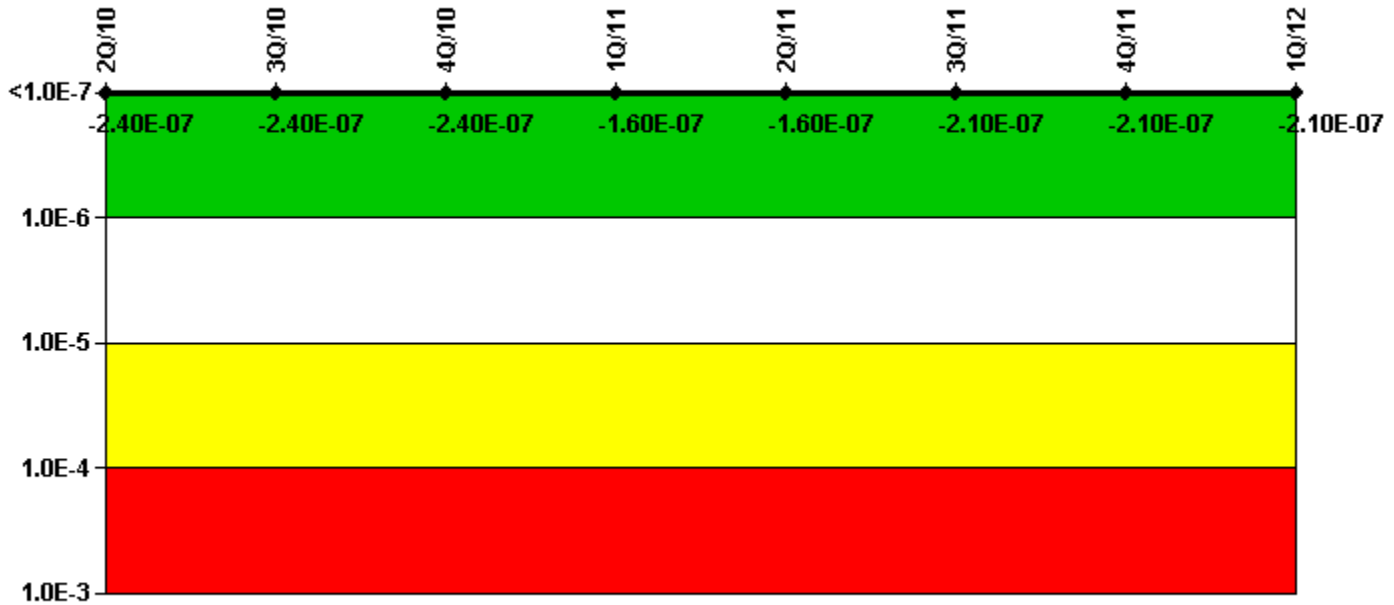
Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.



# Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

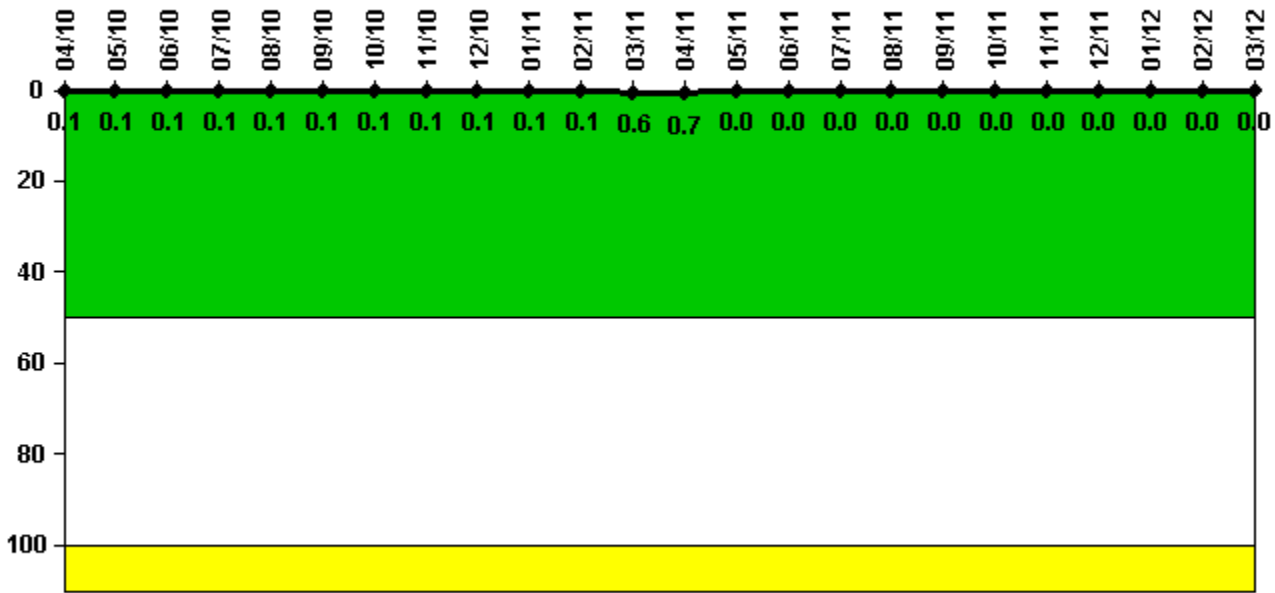
Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI ( $\Delta$ CDF)	-1.64E-07	-1.66E-07	-1.66E-07	-1.12E-07	-1.12E-07	-9.47E-08	-9.47E-08	-9.57E-08
URI ( $\Delta$ CDF)	-7.20E-08	-7.12E-08	-7.19E-08	-4.47E-08	-4.34E-08	-1.13E-07	-1.13E-07	-1.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-07	-2.40E-07	-2.40E-07	-1.60E-07	-1.60E-07	-2.10E-07	-2.10E-07	-2.10E-07

Licensee Comments:

3Q/11: Changed PRA Parameter(s). 3rd Qtr. 2011 MSPI Data submittal includes changes associated with CPNPP PRA model of record MSPIR4.

1Q/11: First Quarter 2011 data includes new MSPI coefficient changes associated with modeling of Auxiliary Power Diesel Generators into an updated CPNPP MSPI Basis Document and the latest CPNPP PRA Model Revision.

# Reactor Coolant System Activity



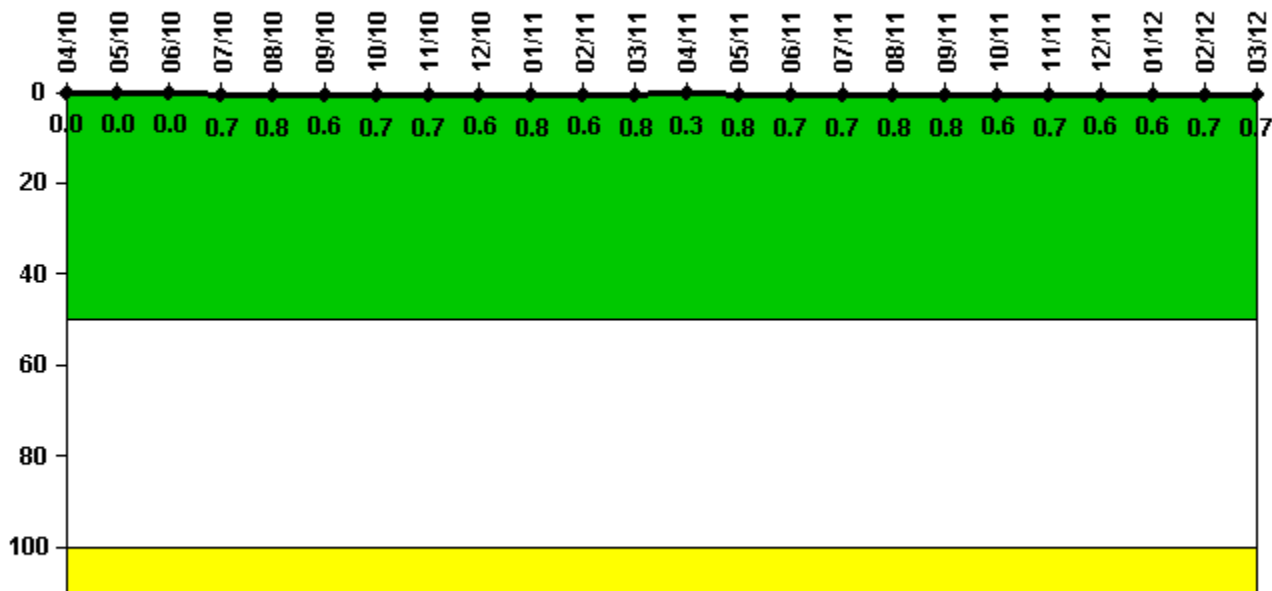
Thresholds: White > 50.0 Yellow > 100.0

## Notes

<b>Reactor Coolant System Activity</b>	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000285	0.000243	0.000256	0.000299	0.000266	0.000288	0.000280	0.000285	0.000293	0.000295	0.000307	0.002730
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>Indicator value</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.6</b>
<b>Reactor Coolant System Activity</b>	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.003270	0.000115	0.000135	0.000140	0.000142	0.000147	0.000175	0.000163	0.000159	0.000168	0.000186	0.000178
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
<b>Indicator value</b>	<b>0.7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0	0	0	0.068	0.080	0.062	0.073	0.067	0.060	0.075	0.055	0.076
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0.7	0.8	0.6	0.7	0.7	0.6	0.8	0.6	0.8

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.029	0.076	0.066	0.070	0.075	0.077	0.062	0.065	0.063	0.064	0.068	0.068
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.8	0.7	0.7	0.8	0.8	0.6	0.7	0.6	0.6	0.7	0.7

### Licensee Comments:

3/12: RCS total leakage is being reported as identified leakage.

12/11: RCS Total Leakage is being reported as Identified Leakage.

9/11: RCS Total Leakage is being reported as Identified Leakage.

6/11: RCS Total Leakage is being reported as Identified Leakage.

3/11: RCS Total Leakage is being reported as identified leakage.

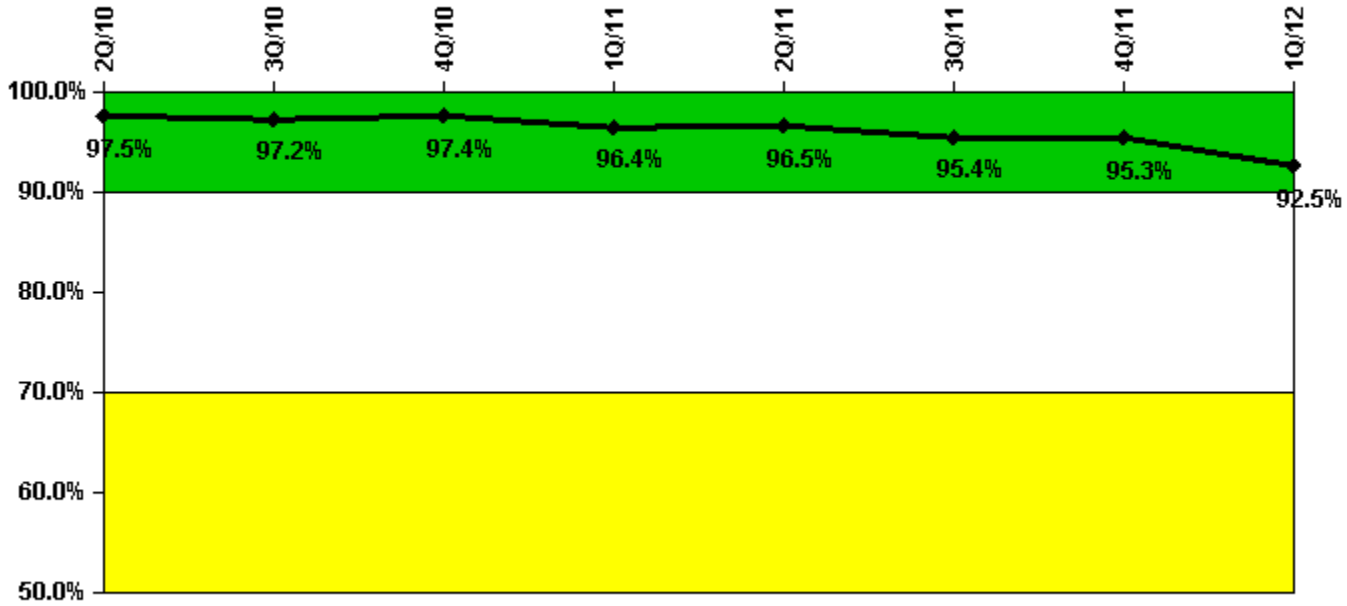
12/10: RCS Total Leakage is being reported as Identified Leakage.

9/10: RCS Total Leakage is being reported as Identified Leakage.

6/10: The Comanche Peak Technical Specification (TS) limit for Identified Leakage is 10 gpm, and the TS limit for Unidentified Leakage is 1 gpm. Comanche Peak total calculated RCS leakage is normally much less than 1 gpm (recent baseline data was 0.041 gpm on Unit 2). For this magnitude of leak, Comanche Peak typically does not identify the leak source; therefore, this leakage is considered Unidentified Leakage. Under these conditions, we report to INPO CDE our Maximum RCS Unidentified Leakage, as measured, and our Maximum RCS Identified

Leakage as 0.0 gpm (per the TS definition of Identified Leakage), in accordance with NEI 99-02, R6. Comanche Peak also administratively begins a process to identify the leak source when repeated RCS Unidentified Leakage test results are as low as >0.1 gpm (CPNPP action levels follow PWROG guidelines for RCS leakage). An FAQ has been submitted to the NEI ROP Task Force to clarify this method of reporting.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

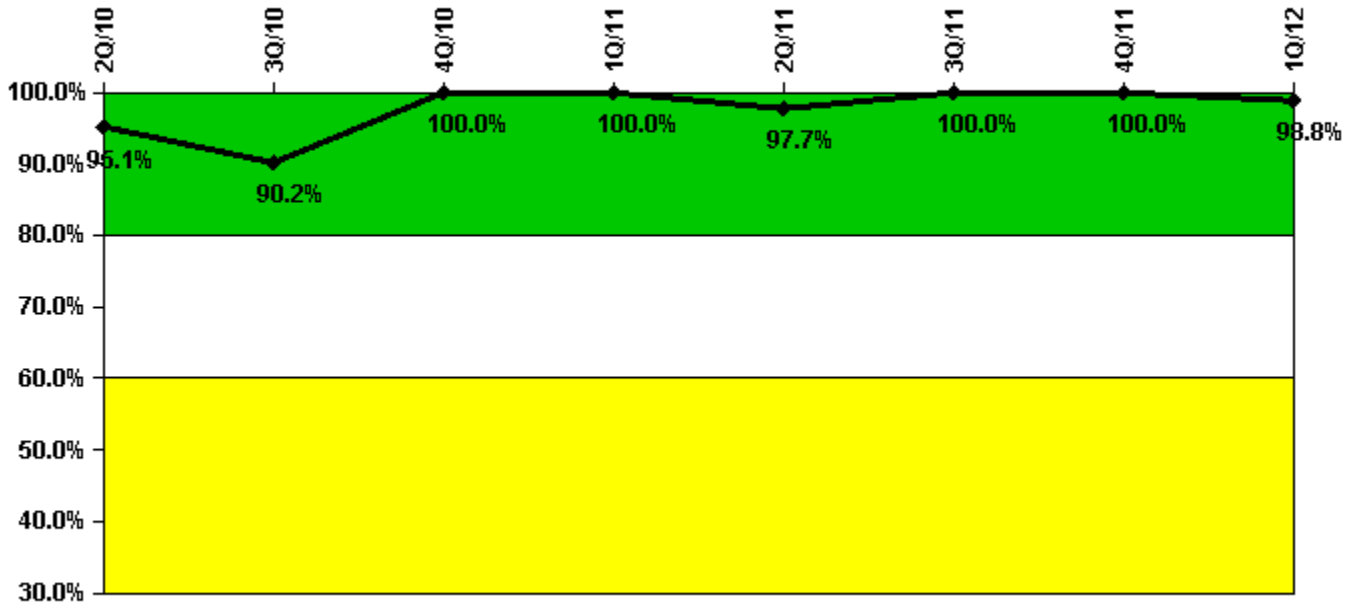
Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	8.0	15.0	10.0	19.0	23.0	35.0	6.0	7.0
Total opportunities	9.0	16.0	10.0	20.0	24.0	37.0	6.0	11.0
Indicator value	97.5%	97.2%	97.4%	96.4%	96.5%	95.4%	95.3%	92.5%

### Licensee Comments:

3Q/11: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for 3Q 2010 to include unexpected simulator drill opportunities that were not included in the original indicator data submission. This data change did not result in a change to the indicator color.

3Q/10: Based on NRC feedback during an inspection, the Emergency Preparedness Drill and Exercise Performance data has been changed for September to include unexpected simulator drill opportunities that were not included in the original indicator data submission.

## ERO Drill Participation



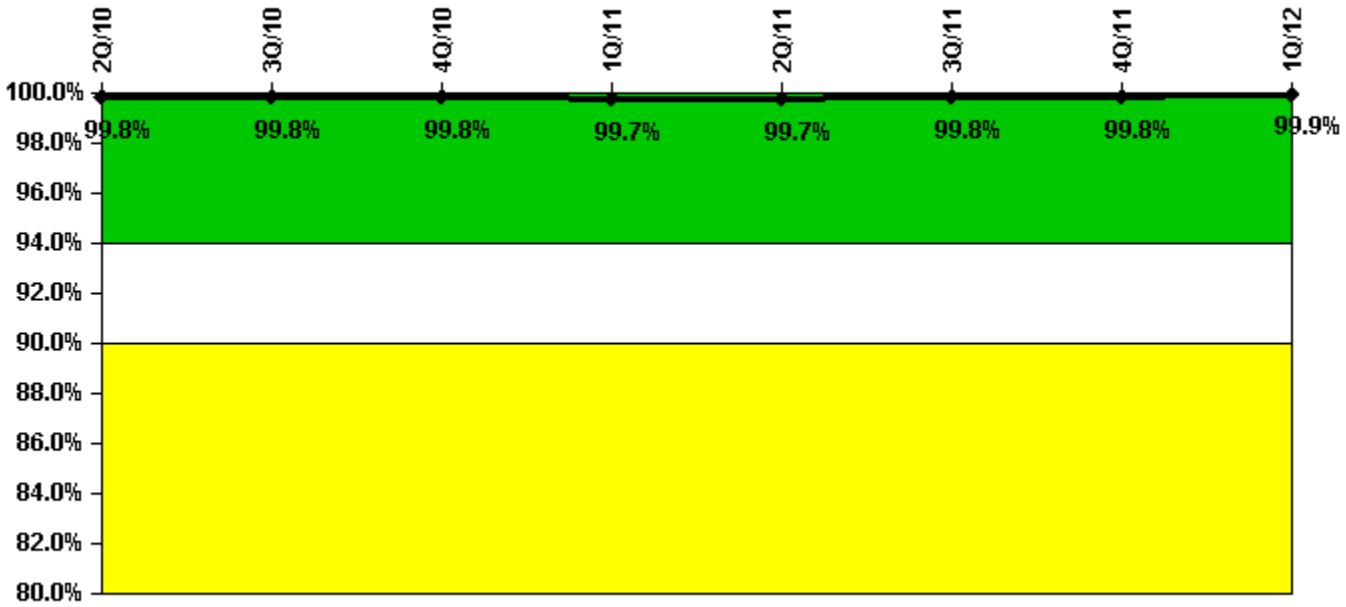
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	77.0	74.0	82.0	84.0	84.0	87.0	88.0	79.0
Total Key personnel	81.0	82.0	82.0	84.0	86.0	87.0	88.0	80.0
Indicator value	95.1%	90.2%	100.0%	100.0%	97.7%	100.0%	100.0%	98.8%

Licensee Comments: none

# Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	432	430	429	430	431	432	431	360
Total sirens-tests	432	432	430	432	432	432	431	360
Indicator value	99.8%	99.8%	99.8%	99.7%	99.7%	99.8%	99.8%	99.9%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



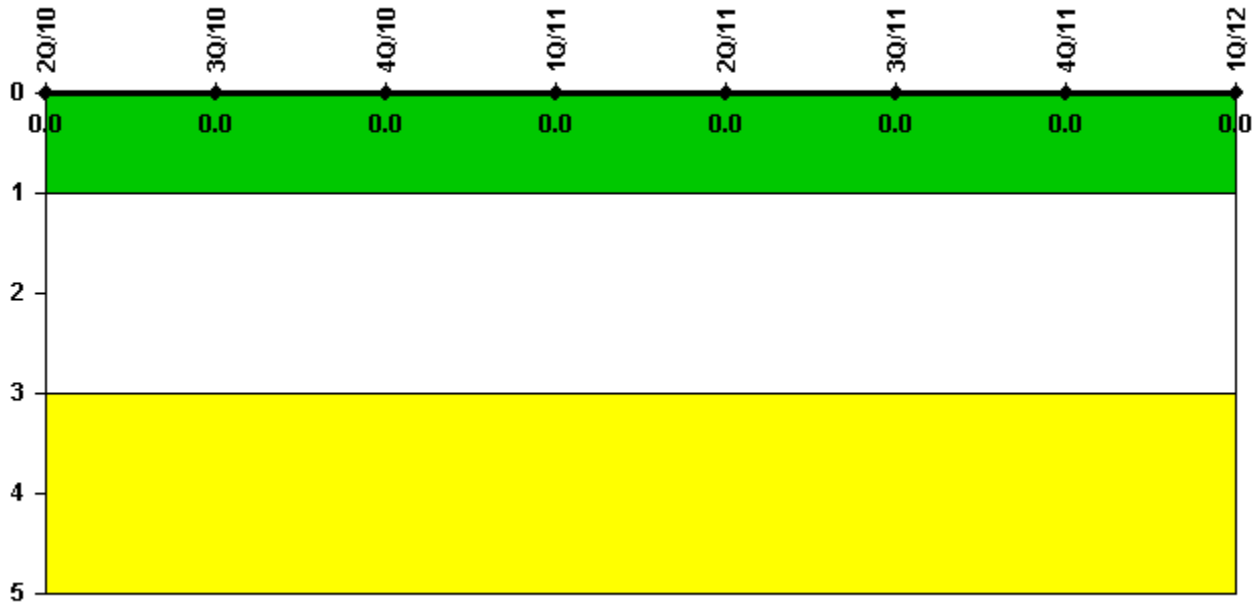
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

RETS/ODCM Radiological Effluent	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.